Technical Specification Sheet

Product: artem ComPoint Enterprise

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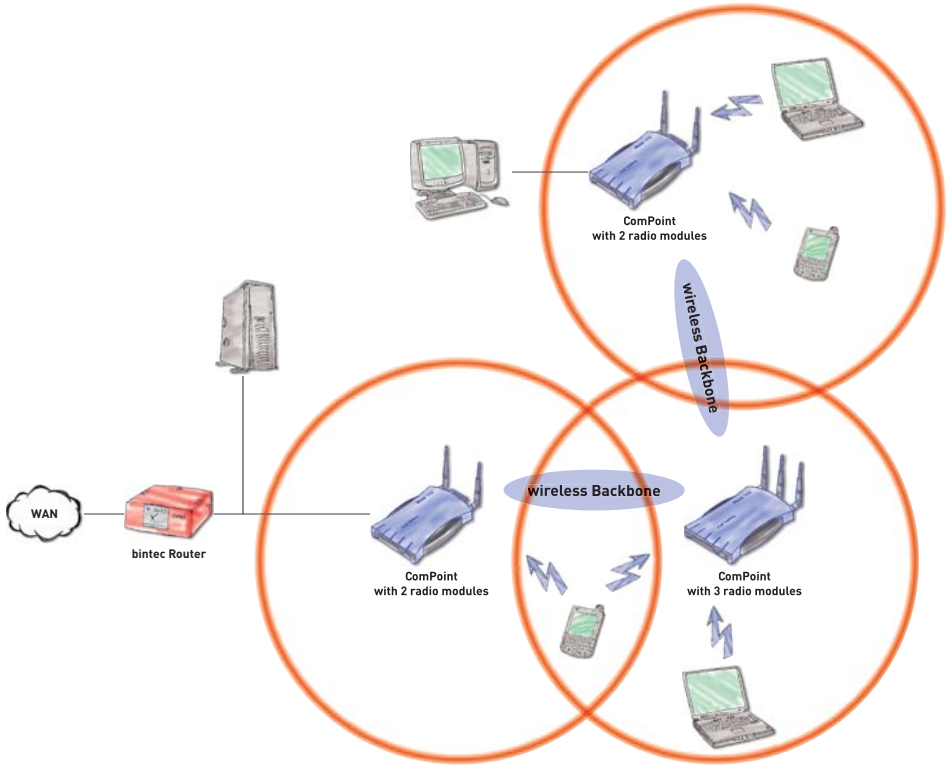

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ComPoint Enterprise

	CPS-AP-b	CPD-XT-b	CPT-XT-b	CPS-AP-g	CPD-XT-g	CPT-XT-g
Product Variations						
According To IEEE 802.11b	•	•	•			
According To IEEE 802.11g				•	•	•
Number Of Radio Modules	1	2	3	1	2	3
Pover-Over-Ethernet	All variations of the ComPoint are optionally available with Pover-Over-Ethernet					
General Information						
Antennas						
Number Of Detachable Standard Antennas	1	2	3	1	2	3
Number Of Detachable Antennas For Diversity	1	0	3	1	0	3
Typical Distances (m)						
802.11b @ 11Mbps, 2.4GHz (with provided antenna)	160	160	160	160	160	160
802.11g @ 54Mbps, 2.4GHz (with provided antenna)				20	20	20
	Higher distances can be achieved by lower data rates or additional antennas					
Data Rate Per Radio Module						
11, 5.5, 2 And 1Mbps (DSSS), 2.4GHz	•	•	•	•	•	•
54, 48, 36, 24, 18, 12, 9 And 6Mbps (OFDM), 2.4GHz				•	•	•
Automatic Rate Selection (ARS)	•	•	•	•	•	•
Voice Prioritisation						
SVP Support	•	•	•	•	•	•
LED indicators						
Radio Activity	•	•	•	•	•	•
System Status	•	•	•	•	•	•
Ethernet Actifity	•	•	•	•	•	•

	CPS-AP-b	CPD-XT-b	CPT-XT-b	CPS-AP-g	CPD-XT-g	CPT-XT-g
Radio Modules						
Frequency Band						
Supports 802.11d	•	•	•	•	•	•
Europe (CE) - 2.412 to 2.472GHz, 13 Channels	•	•	•	•	•	•
USA (FCC) - 2.412 to 2.462GHz, 11 Channels	•	•	•	•	•	•
Modulation Types						
DSSS 11-Chip Barker Sequence						
1Mbps (BPSK Modulation)	•	•	•	•	•	•
2Mbps (QPSK Modulation)	•	•	•	•	•	•
5.5Mbps (CCK Modulation)	•	•	•	•	•	•
11Mbps (CCK Modulation)	•	•	•	•	•	•
OFDM						
6Mbps (OFDM With BPSK Carrier Modulation)				•	•	•
9Mbps (OFDM With BPSK Carrier Modulation)				•	•	•
12Mbps (OFDM With QPSK Carrier Modulation)				•	•	•
18Mbps (OFDM With QPSK Carrier Modulation)				•	•	•
24Mbps (OFDM With 16QAM Carrier Modulation)				•	•	•
36Mbps (OFDM With 16QAM Carrier Modulation)				•	•	•
48Mbps (OFDM With 64QAM Carrier Modulation)				•	•	•
54Mbps (OFDM With 64QAM Carrier Modulation)				•	•	•
Output Power @ 2.4GHz						
1Mbps		<20dBM		17dBm		
2Mbps		<20dBM		17dBm		
5.5Mbps		<20dBM		17dBm		
11Mbps		<20dBM		17dBm		
6Mbps				17dBm		
9Mbps				17dBm		
12Mbps				16dBm		
18Mbps				16dBm		
24Mbps				14dBm		
36Mbps				14dBm		
48Mbps				12dBm		
54Mbps				12dBm		
Delay Spread @ 2.4GHz						
		PER <1%		PER 8%		
1Mbps		500ns		250ns		
2Mbps		400ns		250ns		
5.5Mbps		225ns		100ns		
11Mbps		65ns		100ns		
				PER 10%		
6Mbps				<1.000ns		
9Mbps				540ns		
12Mbps				680ns		
18Mbps				420ns		
24Mbps				320ns		
36Mbps				210ns		
48Mbps				160ns		
54Mbps				120ns		

Radio Modules

Receiver Sensitivity @ 2.4GHz

	CPS-AP-b CPD-XT-b CPT-XT-b	CPS-AP-g CPD-XT-g CPT-XT-g
	BER $<10^{-5}$	PER 8%
1Mbps	-94dBm	-87dBm
2Mbps	-91dBm	-84dBm
5.5Mbps	-87dBm	-83dBm
11Mbps	-82dBm	-80dBm
		PER 10%
6Mbps		-82dBm
9Mbps		-81dBm
12Mbps		-79dBm
18Mbps		-77dBm
24Mbps		-74dBm
36Mbps		-70dBm
48Mbps		-66dBm
54Mbps		-65dBm

	CPS-AP-b	CPD-XT-b	CPT-XT-b	CPS-AP-g	CPD-XT-g	CPT-XT-g
Configuration						
Firmware	Can be upgraded by using the artem ComPoint Manager.					
Password Protection	Access control for three different user levels (admin, user, view).					
Security Against Intruders	Telnet is protected against “Brute Force Attacks”					
Configuration Via:						
DHCP	•	•	•	•	•	•
Telnet	•	•	•	•	•	•
HTTP	•	•	•	•	•	•
SNMP (V1, V2, V3)	•	•	•	•	•	•
SNMP Traps Configuratable	•	•	•	•	•	•
SNMP IP Access List Configuratable	•	•	•	•	•	•
Loading And Saveing Of Configurations	•	•	•	•	•	•
On The Fly Configuration	No restart is required after the configuration have changed.					
Configuration Reset	Configuration can be reset without deleting passwords and static IP configuration.					
Configuration Access	Can be disabled via radio or additionally restrained by filter rules.					
Discovery Function	Protocols: Madge Discovery Protocol (MDP) artem Discovery Protocal (ADP) Works accross subnet borders.					
Security						
Encryption Options						
No Encryption	•	•	•	•	•	•
64Bit (WEP)	•	•	•	•	•	•
128Bit RC4	•	•	•	•	•	•
WEPplus (Weak-Key-Avoidance)	•	•	•	•	•	•
WPA Enterprise- And Home-Mode:						
TKIP				•	•	•
Access Control						
Access Control List (ACL):						
Local	•	•	•	•	•	•
Remote (artem Security Manager Via Central Server)	•	•	•	•	•	•
IEEE 802.1x With RADIUS Client (EAP-MD5, RAP-TLS, TTLS).	•	•	•	•	•	•
PEAP	•	•	•	•	•	•

ComPoint Enterprise

	CPS-AP-b	CPD-XT-b	CPT-XT-b	CPS-AP-g	CPD-XT-g	CPT-XT-g
Physical Characteristics						
Dimensions	Approx. 14.5cm by 20.8cm by 3.7cm (w by h by d)					
Weight	550g					
Power Supply Optional	Universal power supply 100-230V, DC 12V, 1A. Power-Over-Ethernet					
Power Consumption	Max. 1A at 12V					
Mounting Options	Desktop, wall mounting (metal bracket)					
Environment						
Temperature range						
Operational	0°C to 55°C					
Storage	-10°C to 70°C					
Humidity	95% (non condensing)					
Network						
Wired LAN	Two 10/100Base-TX (RJ45), Dynamical autonegotiation mode or user configured. Optional one with Pover-Over-Ethernet)					
Ethernet Blue Book	Supported by all ComPoint Variations.					
Roaming	artem roaming protocol.					
Software General						
Learn Table	High performance cache for 4099 MAC-Adresses.					
Layer2 MAC-Adress Filter For:						
Source- And Destination Unicast Adresses Range	•	•	•	•	•	•
Broadcasts	•	•	•	•	•	•
IP-Broadcasts	•	•	•	•	•	•
Multicasts	•	•	•	•	•	•
IP-Multicasts	•	•	•	•	•	•
Layer2 protocol filter	•	•	•	•	•	•
VLAN	Static VLAN configuration according to IEEE 802.1q Supports up to 32 VLANs.					
Pulic HotSpot (PHS) Filter	Load peak compensation					
Buffer Pool	For compensate peaks.					
Data Priorisation For: IP-TOS evaluation SpectraLink Voice Priorisation (SVP)	Layer 2, 3 and 4					

	CPS-AP-b	CPD-XT-b	CPT-XT-b	CPS-AP-g	CPD-XT-g	CPT-XT-g
Software General						
Broken Link Detection (BLD)	For dynamic, port based link monitoring.					
Wireless Extended Statistics	•	•	•	•	•	•
Console Logging	Via Telnet and HTTP.					
DHCP	Client					
Software Wireless Access Point						
Multicast Transmit-Speed Adjustable	•	•	•			
Microwave Oven Robustness (MWO) Enable/Disable	•	•	•			
Access Point Distance Adjustable						
Large	•	•	•			
Medium	•	•	•			
Small	•	•	•			
Mini	•	•	•			
Micro	•	•	•			
Load Balancing Enable/Disable	•	•	•			
Medium Distribution Enable/Disable (Microwave Oven Robustness (MWO), RTS/CTS Threshold, AP Distance)	•	•	•			
Wireless Frame-Encapsulation Configurable (RFC 1042, IEEE 802.1h)	•	•	•			
IEEE 802.11g Compatibility Mode:						
11a Only						
11b Only				•	•	•
11g Only				•	•	•
Mixed				•	•	•
Mixed-Long Range				•	•	•
Mixed-Short Range				•	•	•
Statistics	Sorted by clients and by data rate.					
Radio Quality Information	Signal and noise per client and data rate.					
Table Of Associated Clients	•	•	•	•	•	•
Wireless Network Name Editable (SSID)	•	•	•	•	•	•
Operating Channels	According to the regulatory domain.					
Broadcast-SSID	Enable/disable.					
Transmit Speed	Auto fallback or selectable fixed rates.					
RTS/CTS Threshold	Adjustable					
DTIM Period	Adjustable					

	CPS-AP-b	CPD-XT-b	CPT-XT-b	CPS-AP-g	CPD-XT-g	CPT-XT-g
Software Wireless Access Point						
Power Management For Clients	•	•	•	•	•	•
Number Of Managed Clients Per Radio	Up to 250 at the same time.					
Roaming	With artem Inter-Access-Point-Protocol (IAPP)					
Address Resolution Protocol (ARP)	Translation for wireless clients enable/disable					
Software Wireless Bridge/Multi-Point Bridge						
Point-To-Point Connection Between Two ComPoints	•	•	•	•	•	•
Point-To-Multipoint Connection	Between one ComPoint and up to six partner ComPoints					
Full Remote Configuration	Proprietary artem protocol with encrypted transmission.					
RTS/CTS Threshold	Adjustable					
Operating Channels	According to the regulatory domain.					
Transmit Speed	Auto fallback or selectable fixed rates.					
Software Wireless Bridge/Double Bridge						
Full Remote Configuration	Proprietary artem protocol with encrypted transmission.					
RTS/CTS Threshold	Adjustable					
Operating Channels	According to the regulatory domain.					
Transmit Speed	Auto fallback or selectable fixed rates.					
Standards						
Meet Wi-Fi IEEE 802.11g Requirements				•	•	•
IEEE 802.11b						
IEEE 802.11b	•	•	•	•	•	•
IEEE 802.11g				•	•	•
IEEE 802.3	•	•	•	•	•	•
Certifcations						
R&TTE Directive 1999/5/EG						
EN 60950 (IEC60950)	•	•	•	•	•	•
EN 300 328-1/2	•	•	•	•	•	•
ETSI EN 301 489-1/17	•	•	•	•	•	•

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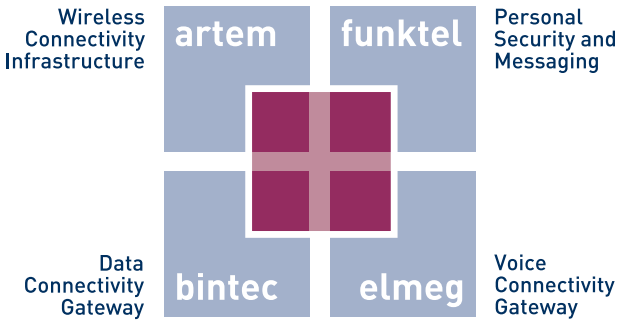
Enterprise Networking
Mobility and Workflow Optimization



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